

IN THE SPECIFICATION

Please amend the specification as follows:

Please amend the paragraph beginning on page 1, line 10, as follows:

The work "Microwave Filters, Impedance-Matching Networks and Coupling Structures", ~~Mgraw-Hill~~ McGraw-Hill, 1962, describes such a microwave filter, in particular a low-pass filter, in which the outer conductive core is normally constituted by a cylindrical metal rod carrying concentric metal disks spaced according to the axial direction, the metal disks forming the succession of concentric crenelations. The cross-section of the inner core thus varies according to the axial direction so that each section of the large diameter inner core (corresponding to a metal disk) defines a section of coaxial line of very low impedance and each section of inner core of smaller diameter (corresponding to the interval between two consecutive disks) defines a section of coaxial line of high impedance. The dimensions of the sections are adjusted so as to realize the transfer function of the filter. However, the ~~realisation~~ realization of such a coaxial structure microwave filter proves to be complex and costly, particularly for maintaining ~~a perfect coaxiality between the inner core and the outer core of the filter~~ perfectly coaxial. Spacers made from plastic or another dielectric material are generally used to maintain ~~the coaxiality~~ them coaxial but this introduces dielectric losses.

Please amend the paragraph beginning on page 1, line 31, as follows:

For this purpose, the invention relates to a coaxial structure microwave filter constituted by a tube of synthetic foam material, the tube presenting a constant internal diameter and a fully metallized external surface with, in the axial direction, a profile according to a periodic or constant function and by a bar of a fully metallized synthetic material, with a constant external profile or following a periodic function, the largest diameter of the bar being noticeably equal to the internal diameter of the tube so that the bar can be inserted into the tube while maintaining ~~the coaxiality between the tube and the bar~~ coaxial. The foam used is preferably a polymethacrylimide foam known for its electrical characteristics approaching those of air, for its mechanical characteristics of rigidity and

lightness and for its low cost price. In particular, a polymethacrylimide foam ~~commercialised~~ under the name of "~~ROHACELL~~ polymethacrylimide HF" (high frequency) can be used.

Please amend the paragraph beginning on page 2, line 22, as follows:

The invention extends to a method of producing a microwave filter as defined above according to which the periodic function is realized by thermoforming the foam tube or foam bar. In particular, as a thermoforming technique, hot press ~~moulding~~ molding will preferably be used, which is adapted to an objective of high volume, low cost production.

Please amend the paragraph beginning on page 3, line 16, as follows:

The inner bar 2 of the filter is constituted by a cylindrical bar made of synthetic foam whose outer surface follows a periodic function according to the axial direction. It preferably forms a succession of concentric crenelations 3A, 3B, 3C and 3D realizing the transfer function of the filter, for example a transfer function of a low-pass filter by defining successive sections of low characteristic impedance coaxial lines and high characteristic impedance coaxial lines. The ~~conformation~~ shape of the foam bar 2 is realized by thermoforming, in particular according to a hot press ~~moulding~~ molding technique. The outer surface ~~of foam bar 2~~ is metallized ~~preferably by projection or by brush~~ using a step of metal projecting or of metallic brushing (painting).